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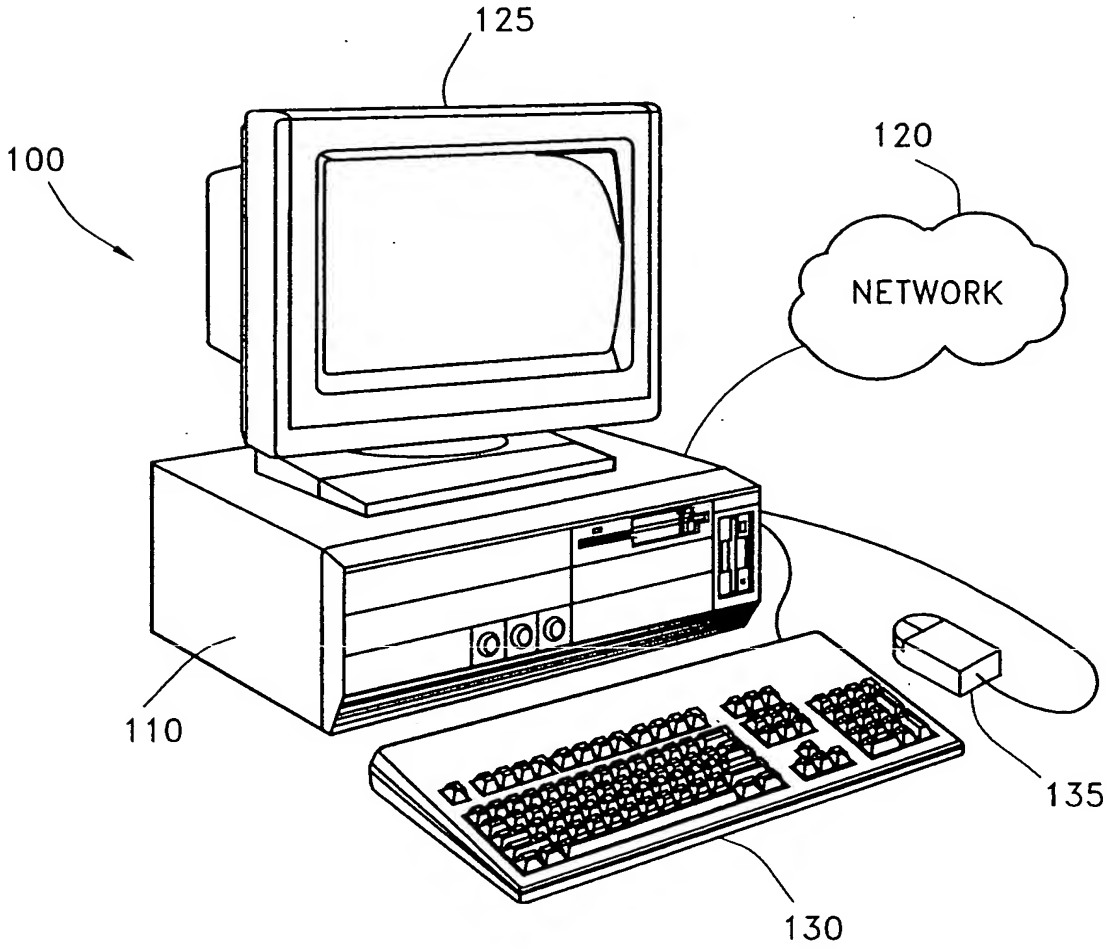

FIG. 1

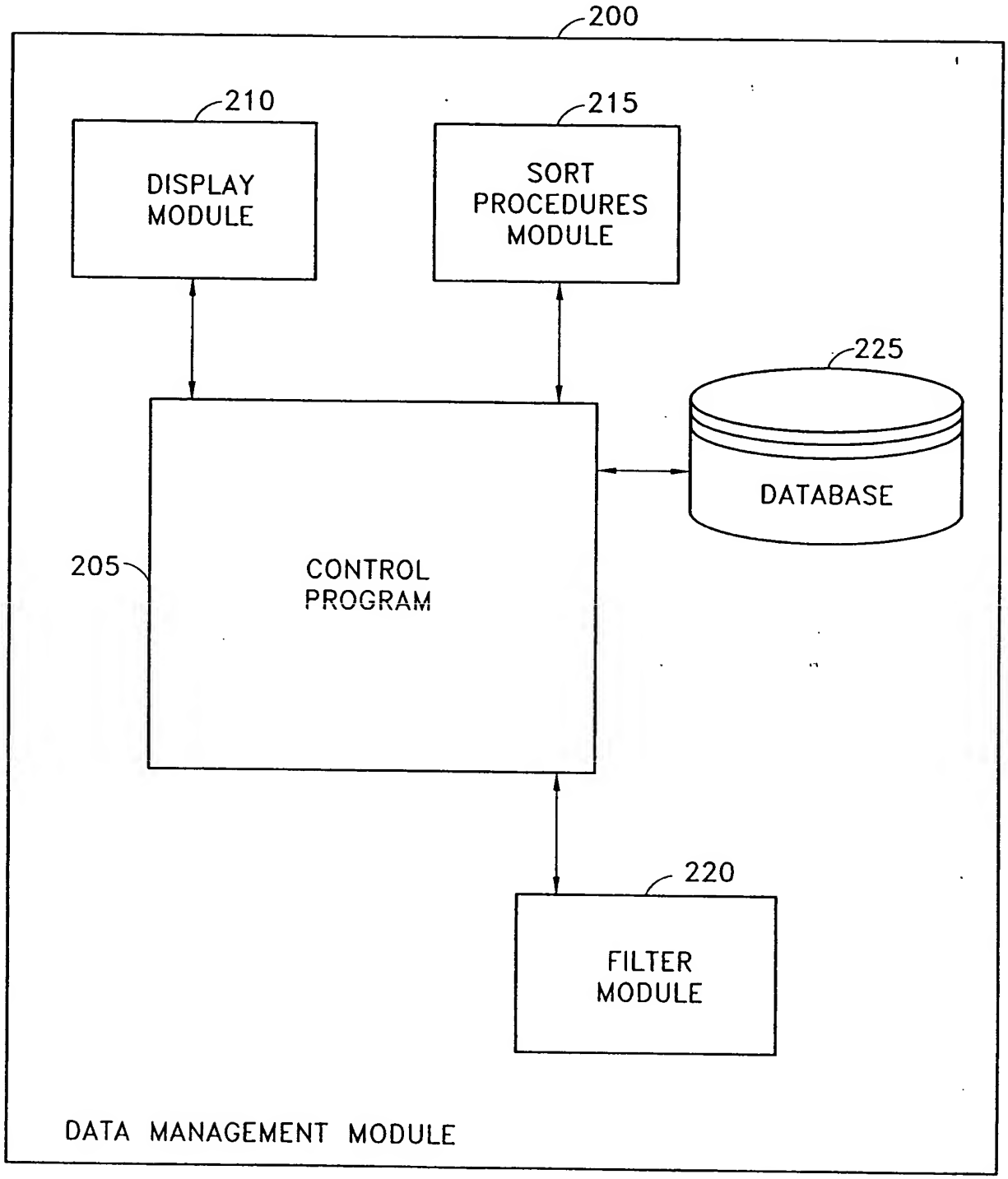
200
210
DISPLAY MODULE
215
SORT PROCEDURES MODULE
225
DATABASE
205
CONTROL PROGRAM
220
FILTER MODULE
DATA MANAGEMENT MODULE

FIG. 2

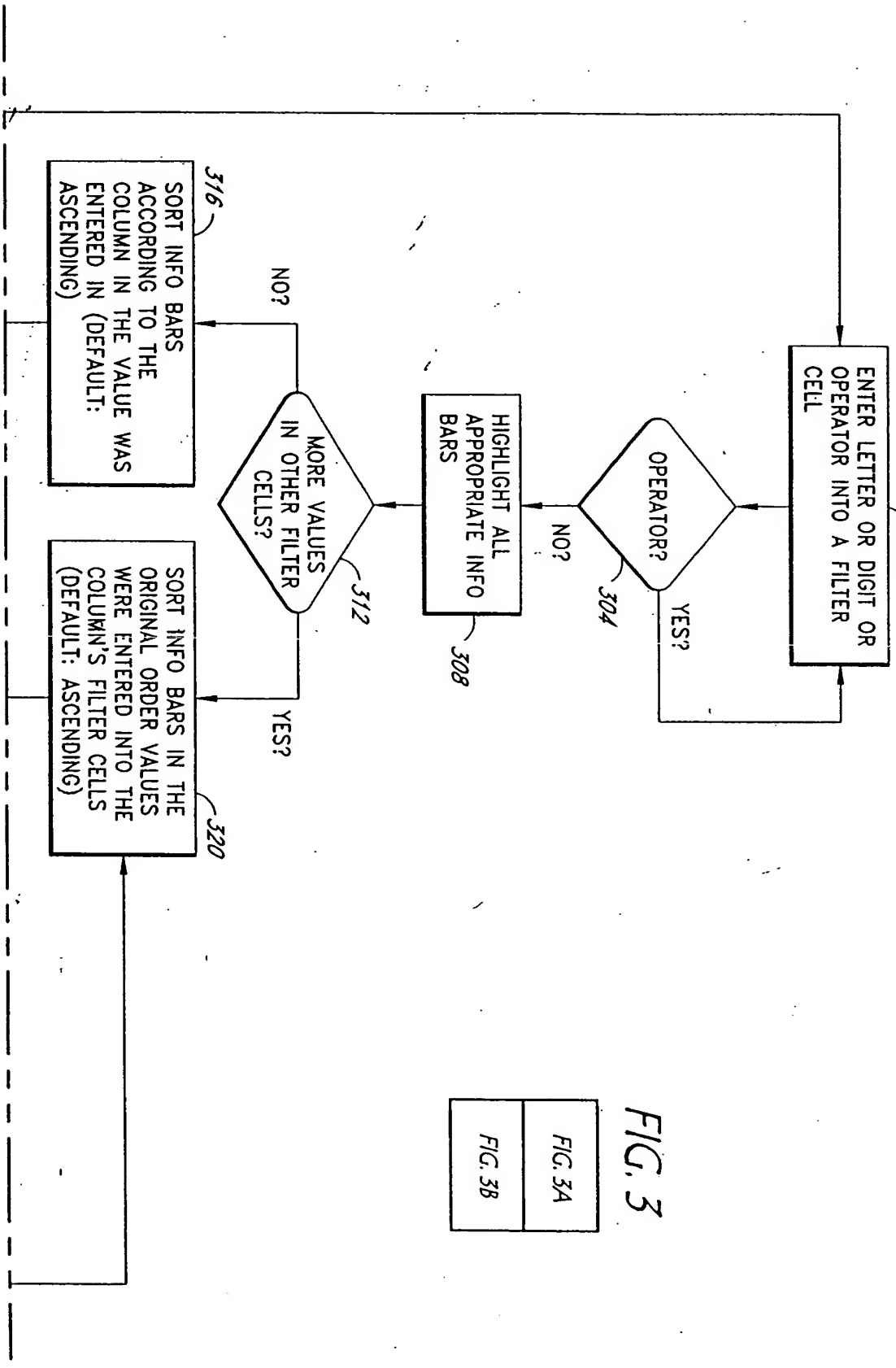

FIG. 3

FIG. 3A
FIG. 3B

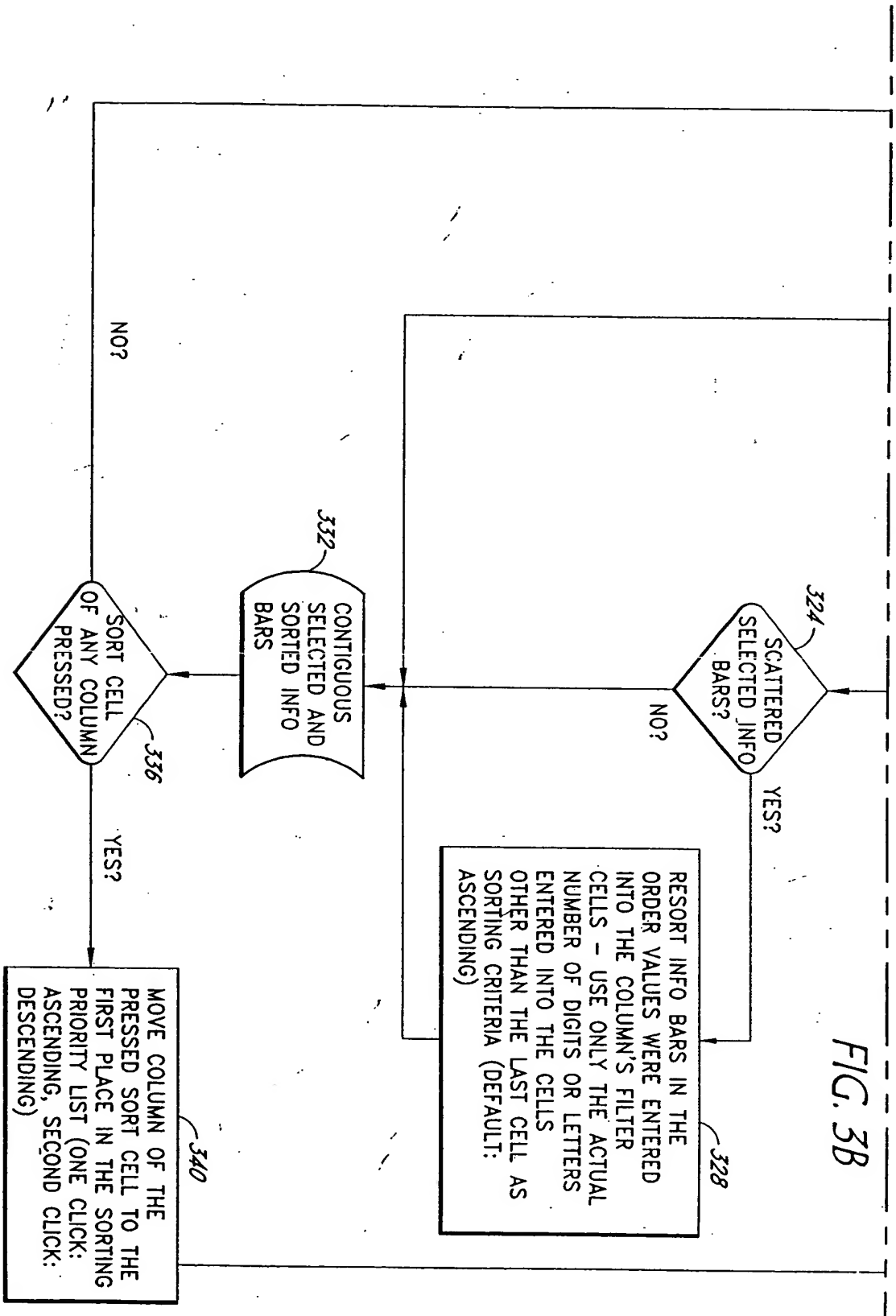
324
SCATTERED SELECTED INFO BARS?
NO?
YES?
328
RESORT INFO BARS IN THE ORDER VALUES WERE ENTERED INTO THE COLUMN'S FILTER CELLS – USE ONLY THE ACTUAL NUMBER OF DIGITS OR LETTERS ENTERED INTO THE CELLS OTHER THAN THE LAST CELL AS SORTING CRITERIA (DEFAULT: ASCENDING)
332
CONTIGUOUS SELECTED AND SORTED INFO BARS
336
SORT CELL OF ANY COLUMN PRESSED?
NO?
YES?
340
MOVE COLUMN OF THE PRESSED SORT CELL TO THE FIRST PLACE IN THE SORTING PRIORITY LIST (ONE CLICK: ASCENDING, SECOND CLICK: DESCENDING)

FIG. 3B

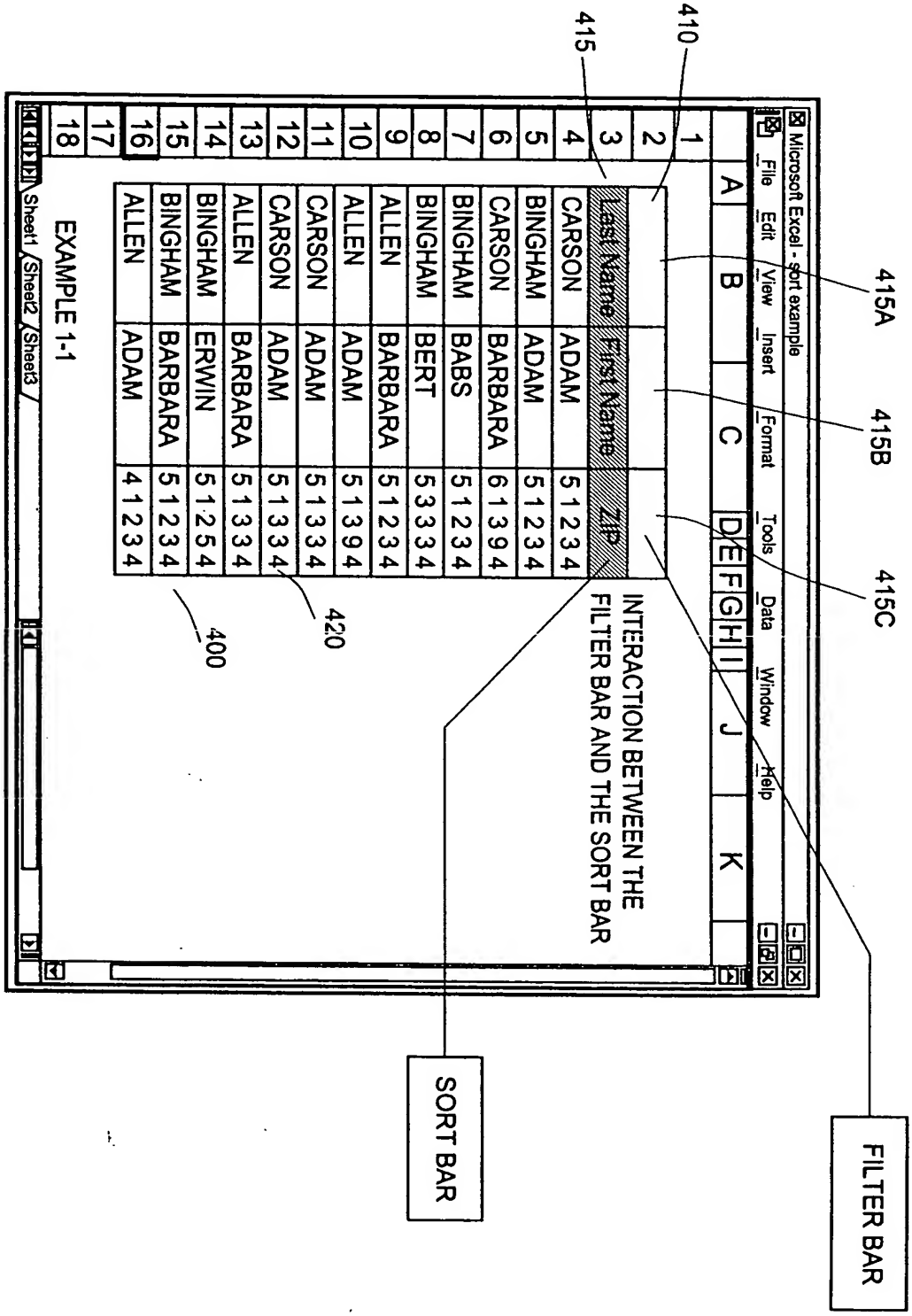
Microsoft Excel - sort example
File Edit View Insert Format Tools Data Window Help
A B C D E F G H I J K
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18
Last Name First Name ZIP
CARSON ADAM 51234
BINGHAM ADAM 51234
CARSON BARBARA 61394
BINGHAM BABS 51234
BINGHAM BERT 53334
ALLEN BARBARA 51234
ALLEN ADAM 51394
CARSON ADAM 51334
CARSON ADAM 51334
ALLEN BARBARA 51334
BINGHAM ERWIN 51254
BINGHAM BARBARA 51234
ALLEN ADAM 41234
EXAMPLE 1-1
Sheet1 Sheet2 Sheet3
410
415
415A
415B
415C
400
420
INTERACTION BETWEEN THE FILTER BAR AND THE SORT BAR
FILTER BAR
SORT BAR

FIG. 4A

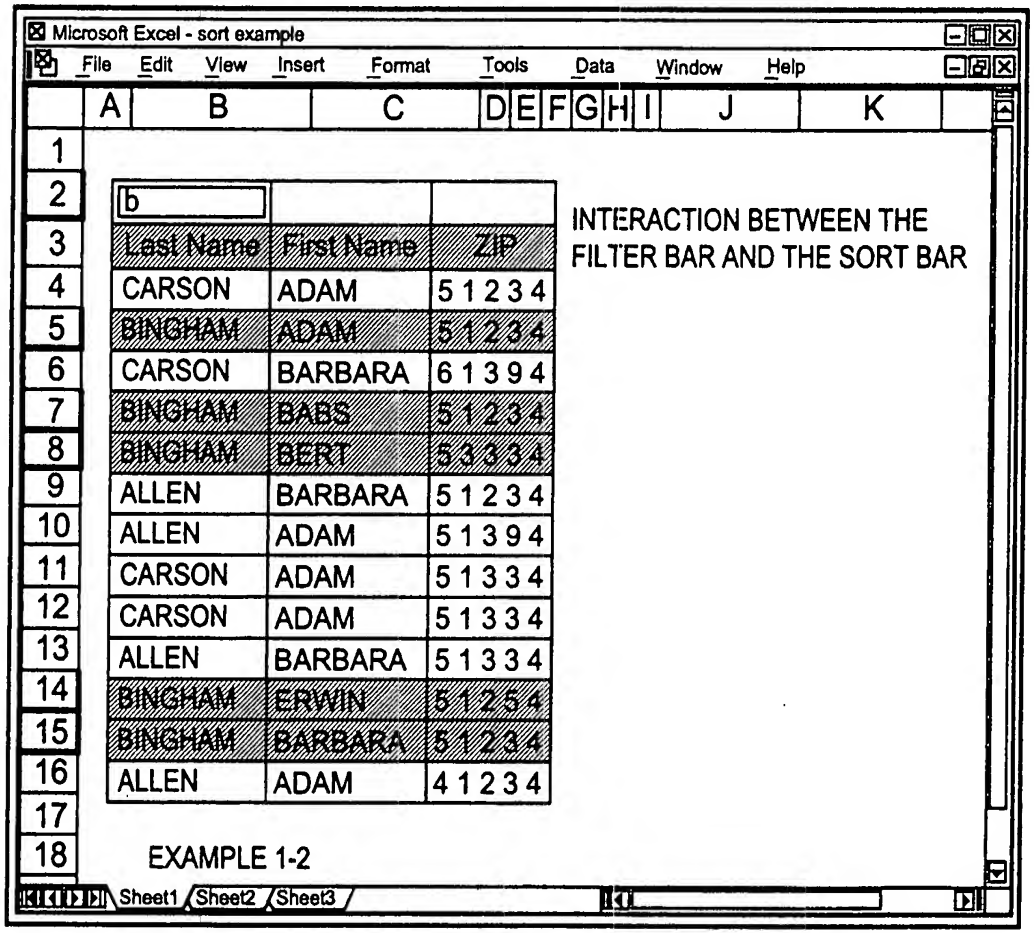
Microsoft Excel - sort example
File Edit View Insert Format Tools Data Window Help
b
Last Name | First Name | ZIP
CARSON | ADAM | 51234
BINGHAM | ADAM | 51234
CARSON | BARBARA | 61394
BINGHAM | BABS | 51234
BINGHAM | BERT | 53334
ALLEN | BARBARA | 51234
ALLEN | ADAM | 51394
CARSON | ADAM | 51334
CARSON | ADAM | 51334
ALLEN | BARBARA | 51334
BINGHAM | ERWIN | 51254
BINGHAM | BARBARA | 51234
ALLEN | ADAM | 41234
INTERACTION BETWEEN THE FILTER BAR AND THE SORT BAR
EXAMPLE 1-2
Sheet1 Sheet2 Sheet3

FIG. 4B

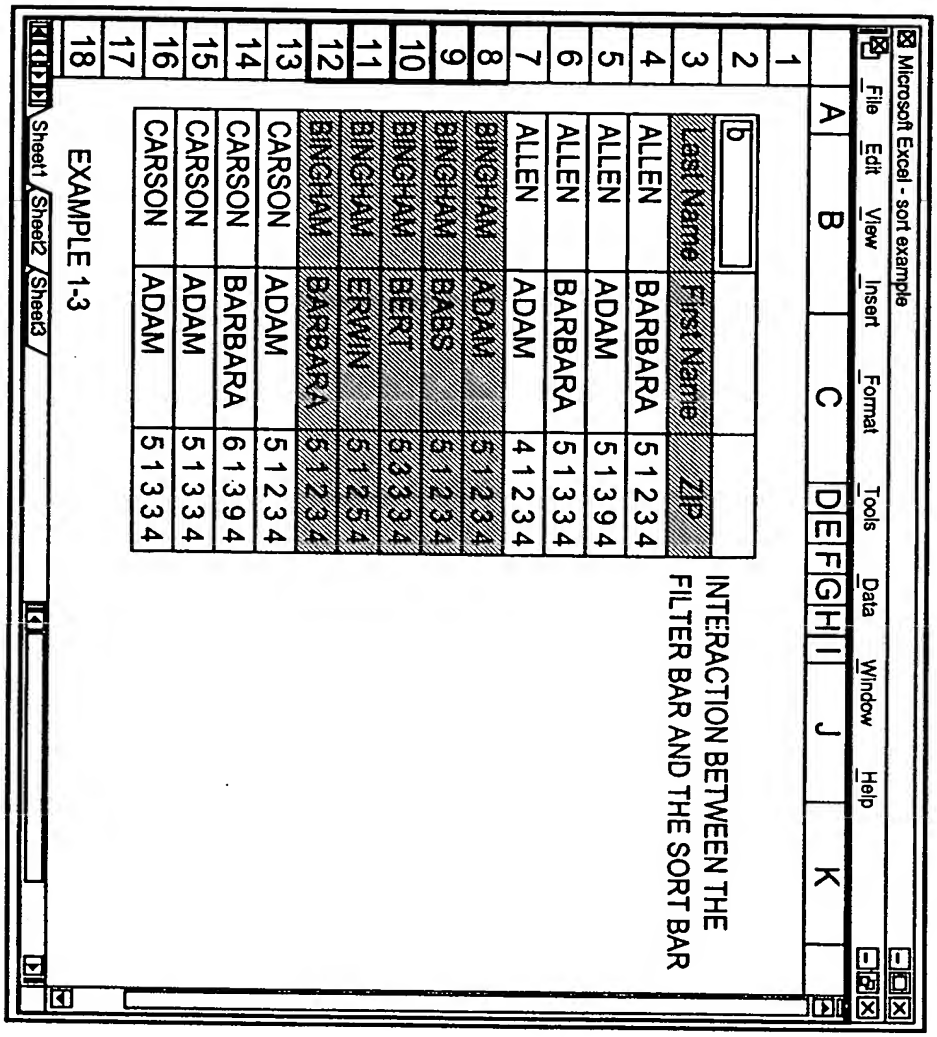
Microsoft Excel - sort example
File Edit View Insert Format Tools Data Window Help
INTERACTION BETWEEN THE FILTER BAR AND THE SORT BAR
Last Name First Name ZIP
ALLEN BARBARA 51234
ALLEN ADAM 51394
ALLEN BARBARA 51334
ALLEN ADAM 41234
BINGHAM ADAM 51234
BINGHAM BABS 51234
BINGHAM BERT 53334
BINGHAM ERWIN 51254
BINGHAM BARBARA 51234
CARSON ADAM 51234
CARSON BARBARA 61394
CARSON ADAM 51334
CARSON ADAM 51334
EXAMPLE 1-3
Sheet1 Sheet2 Sheet3

FIG. 4C

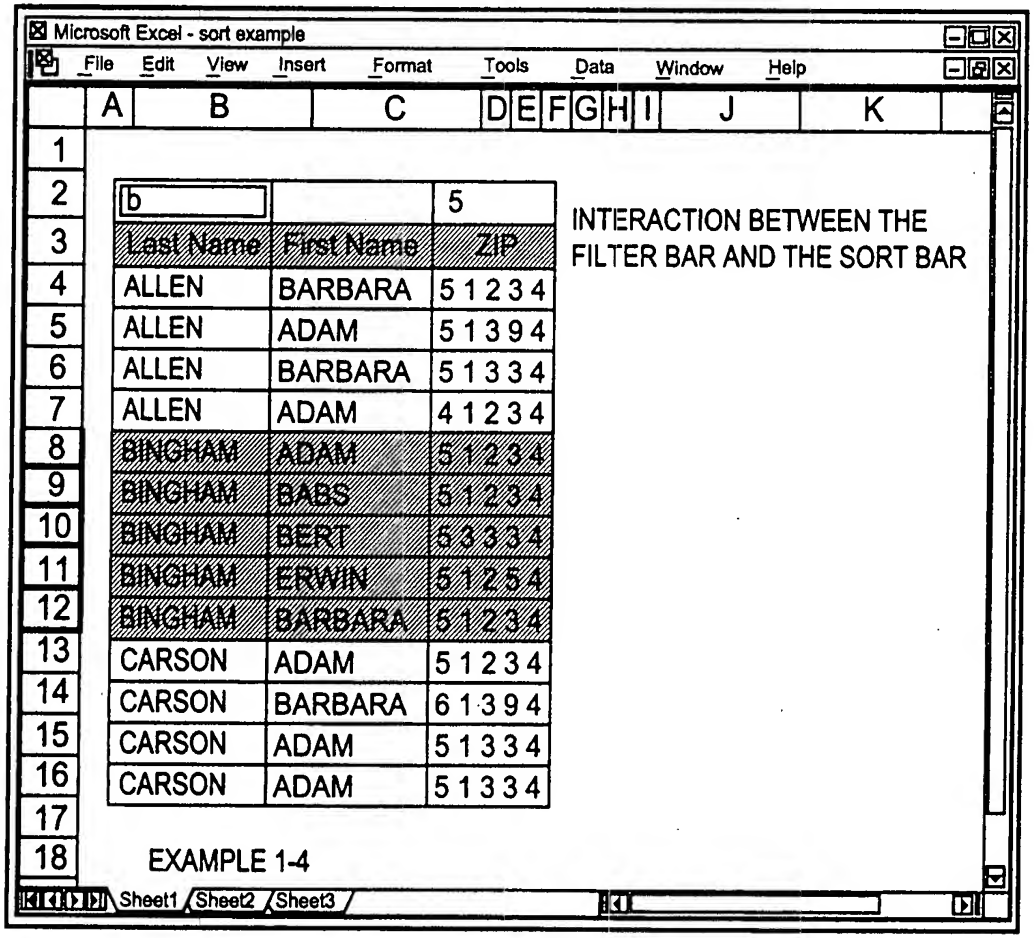
Microsoft Excel - sort example
File Edit View Insert Format Tools Data Window Help
b
5
Last Name | First Name | ZIP
ALLEN | BARBARA | 51234
ALLEN | ADAM | 51394
ALLEN | BARBARA | 51334
ALLEN | ADAM | 41234
BINGHAM | ADAM | 51234
BINGHAM | BABS | 51234
BINGHAM | BERT | 53334
BINGHAM | ERWIN | 51254
BINGHAM | BARBARA | 51234
CARSON | ADAM | 51234
CARSON | BARBARA | 61394
CARSON | ADAM | 51334
CARSON | ADAM | 51334
INTERACTION BETWEEN THE FILTER BAR AND THE SORT BAR
EXAMPLE 1-4
Sheet1 Sheet2 Sheet3

FIG. 4D

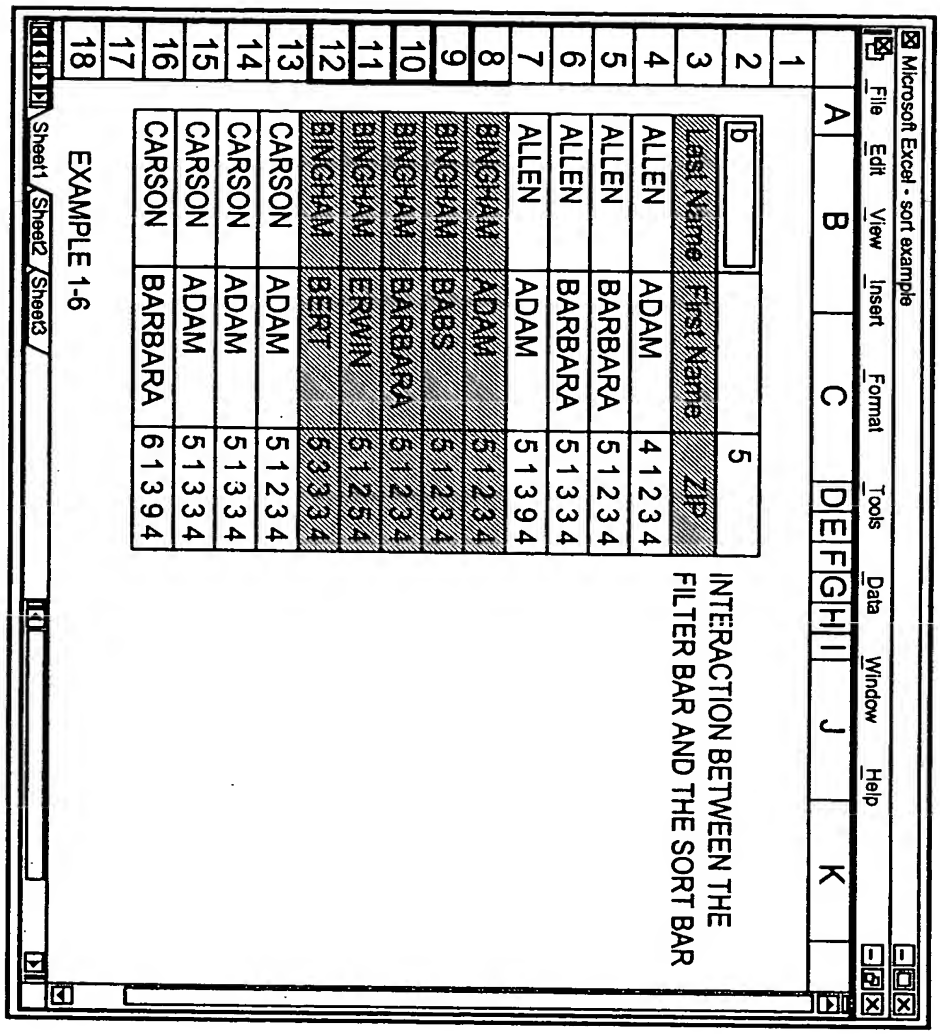
Microsoft Excel - sort example
File Edit View Insert Format Tools Data Window Help
INTERACTION BETWEEN THE FILTER BAR AND THE SORT BAR
Last Name
First Name
ZIP
ALLEN ADAM 41234
ALLEN BARBARA 51234
ALLEN BARBARA 51334
ALLEN ADAM 51394
BINGHAM ADAM 51234
BINGHAM BABS 51234
BINGHAM BARBARA 51234
BINGHAM ERWIN 51254
BINGHAM BERT 53334
CARSON ADAM 51234
CARSON ADAM 51334
CARSON ADAM 51334
CARSON BARBARA 61394
EXAMPLE 1-6
Sheet1 Sheet2 Sheet3

FIG. 4E

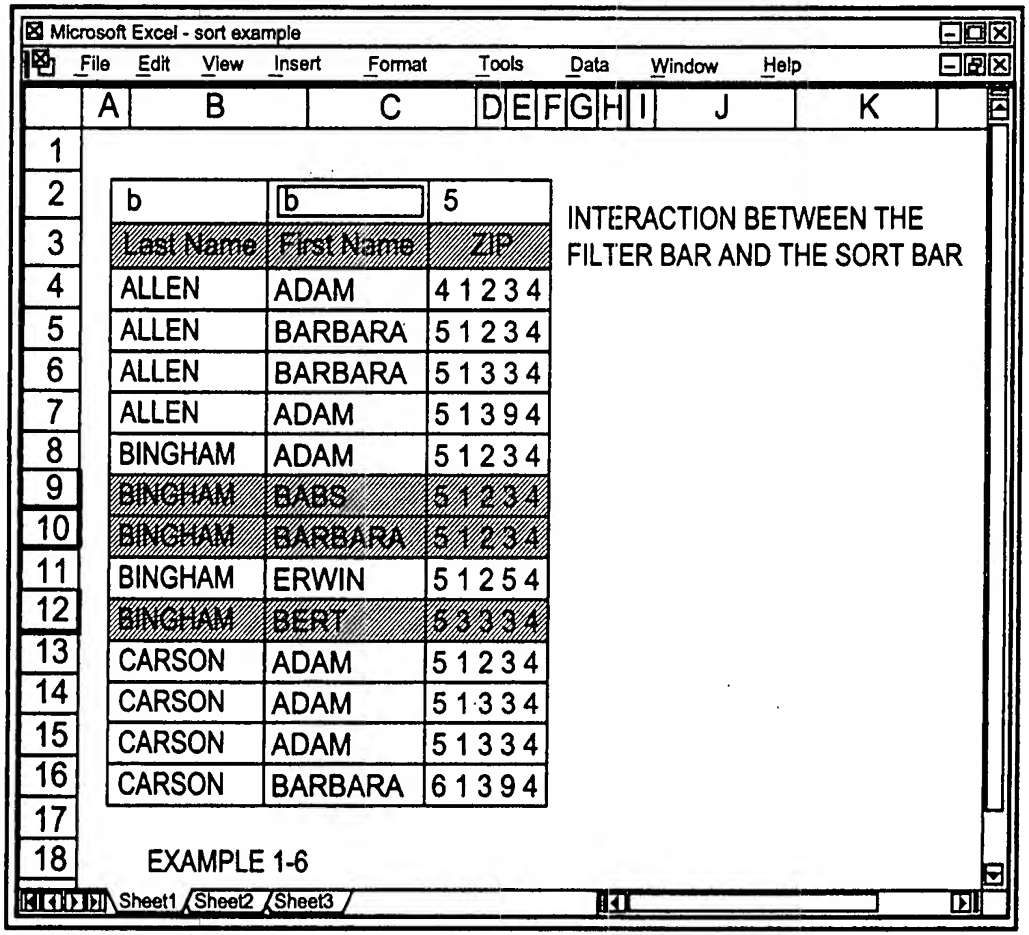
Microsoft Excel - sort example
File Edit View Insert Format Tools Data Window Help
b
5
Last Name
First Name
ZIP
ALLEN ADAM 41234
ALLEN BARBARA 51234
ALLEN BARBARA 51334
ALLEN ADAM 51394
BINGHAM ADAM 51234
BINGHAM BABS 51234
BINGHAM BARBARA 51234
BINGHAM ERWIN 51254
BINGHAM BERT 53334
CARSON ADAM 51234
CARSON ADAM 51334
CARSON ADAM 51334
CARSON BARBARA 61394
INTERACTION BETWEEN THE FILTER BAR AND THE SORT BAR
EXAMPLE 1-6
Sheet1 Sheet2 Sheet3

FIG. 4F

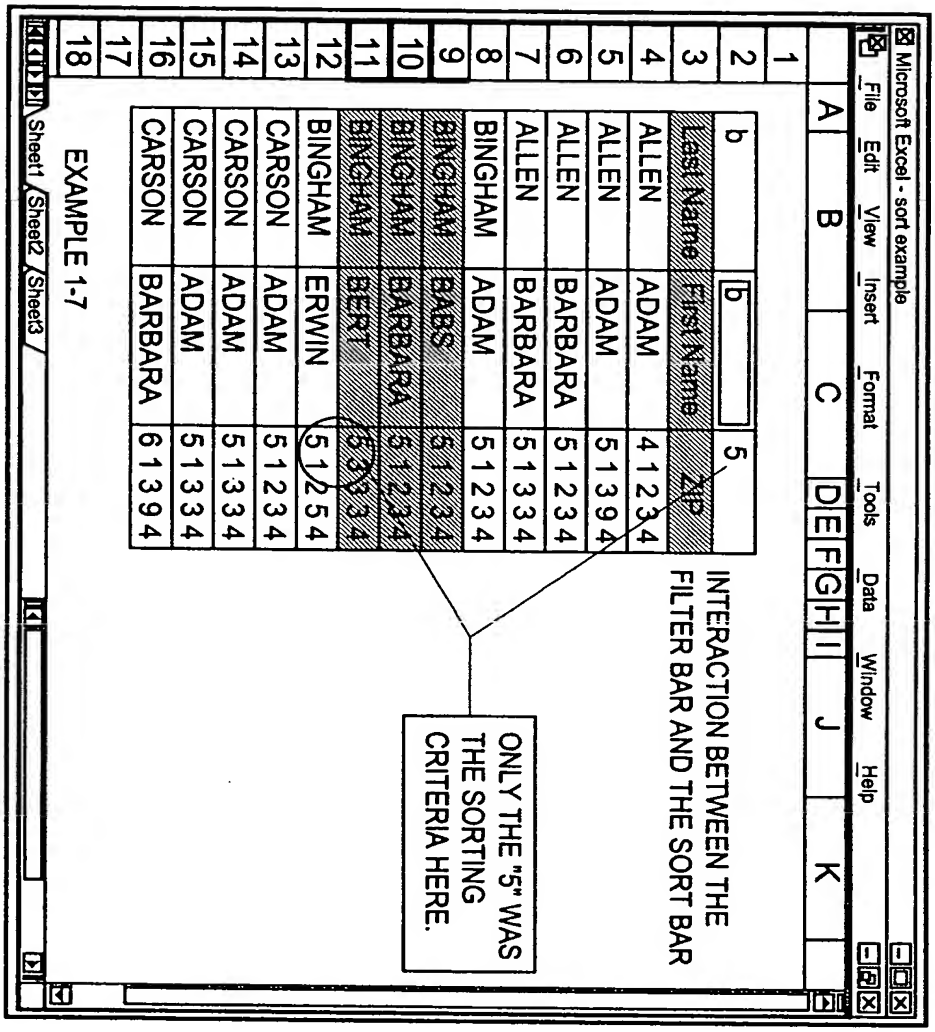
Microsoft Excel - sort example
File Edit View Insert Format Tools Data Window Help
b
5
Last Name
First Name
ZIP
ALLEN ADAM 41234
ALLEN ADAM 51394
ALLEN BARBARA 51234
ALLEN BARBARA 51334
BINGHAM ADAM 51234
BINGHAM BABS 51234
BINGHAM BARBARA 51234
BINGHAM BERT 53334
BINGHAM ERWIN 51254
CARSON ADAM 51234
CARSON ADAM 51334
CARSON ADAM 51334
CARSON BARBARA 61394
INTERACTION BETWEEN THE FILTER BAR AND THE SORT BAR
ONLY THE "5" WAS THE SORTING CRITERIA HERE.
EXAMPLE 1-7
Sheet1 Sheet2 Sheet3

FIG. 4G

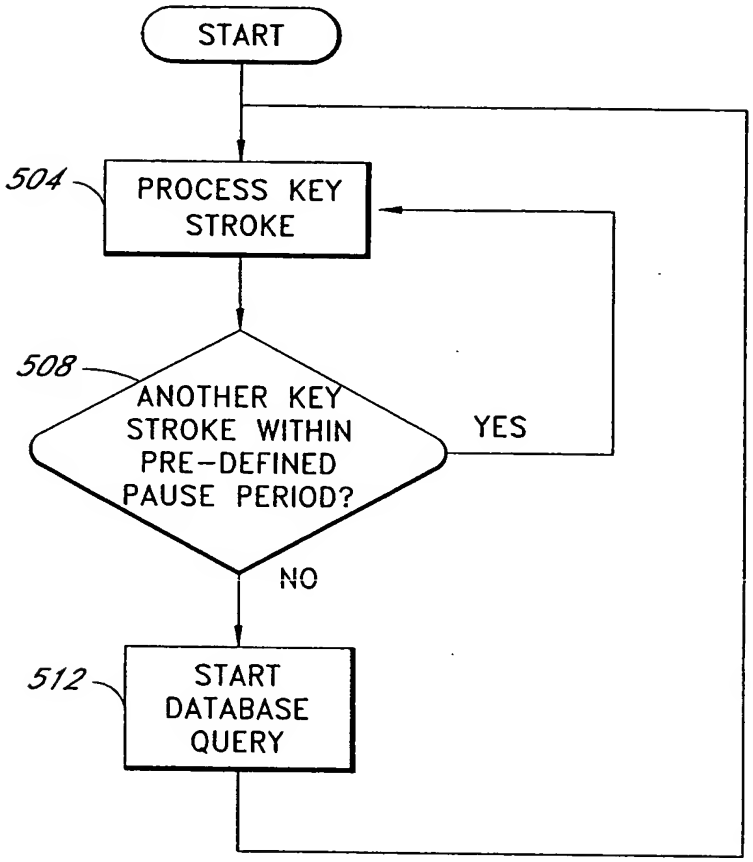
START
504
PROCESS KEY STROKE
508
ANOTHER KEY STROKE WITHIN PRE-DEFINED PAUSE PERIOD?
YES
NO
512
START DATABASE QUERY

FIG. 5

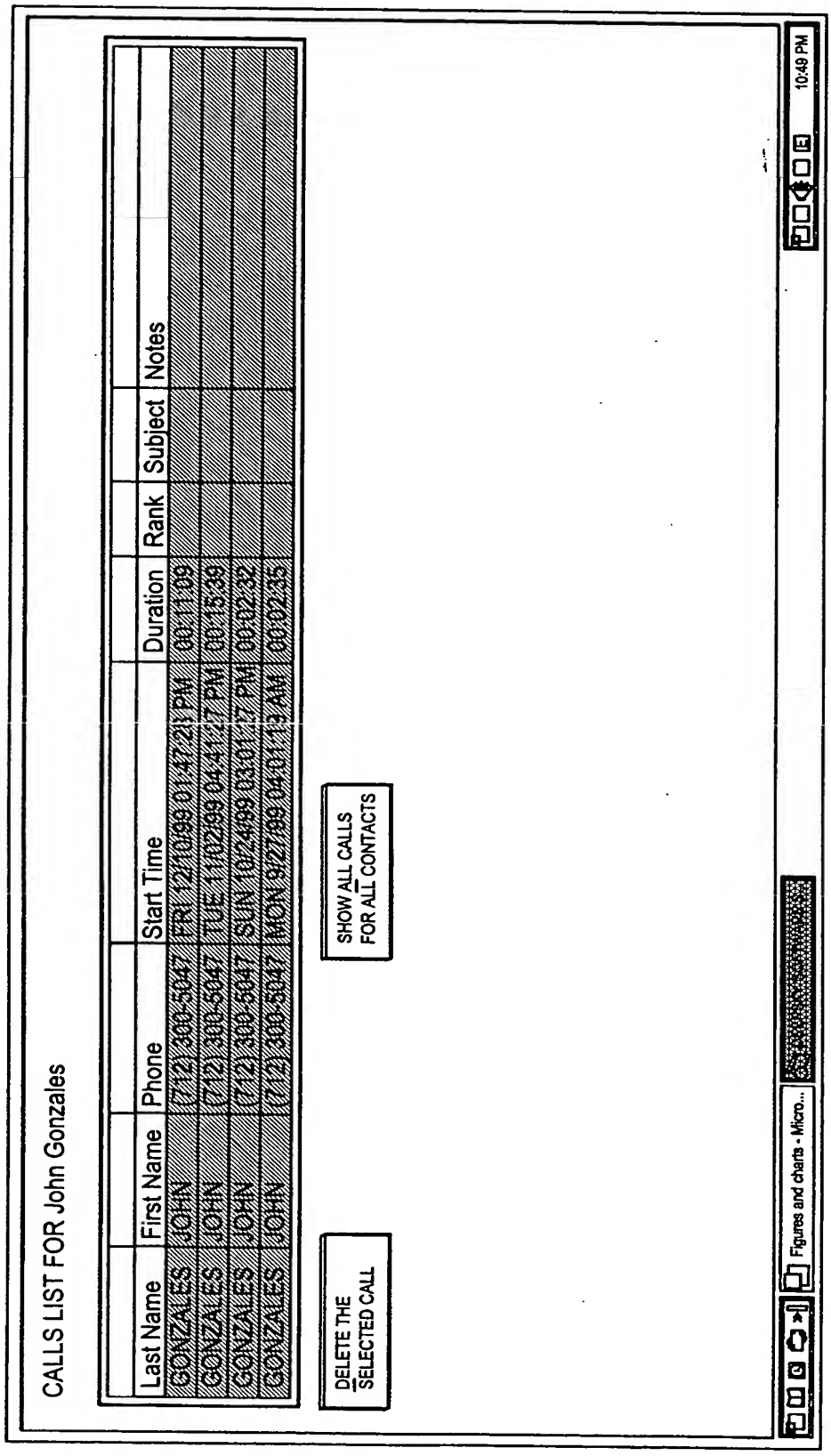
CALLS LIST FOR John Gonzales
Last Name
First Name
Phone
Start Time
Duration
Rank
Subject
Notes
GONZALES JOHN (712) 300-5047 FRI 12/10/99 01:47:21 PM 00:11:09
GONZALES JOHN (712) 300-5047 TUE 11/02/99 04:41:27 PM 00:15:39
GONZALES JOHN (712) 300-5047 SUN 10/24/99 03:01:17 PM 00:02:32
GONZALES JOHN (712) 300-5047 MON 9/27/99 04:01:19 AM 00:02:35
DELETE THE SELECTED CALL
SHOW ALL CALLS FOR ALL CONTACTS
Figures and charts - Micro...
10:49 PM

FIG. 6

CALLS LIST FOR John Gonzales

Last Name	First Name	Phone	Start Time	Duration	Rank	Subject	Notes
GONZALES	JOHN	(712) 300-5047	FRI 12/10/99 01:47:28 PM	00:11:09			
GONZALES	JOHN	(712) 300-5047	TUE 11/02/99 04:41:27 PM	00:15:39			
GONZALES	JOHN	(712) 300-5047	SUN 10/24/99 03:01:27 PM	00:02:32			
GONZALES	JOHN	(712) 300-5047	MON 9/27/99 04:01:19 AM	00:02:35			

DELETE THE SELECTED CALL

SHOW ALL CALLS FOR ALL CONTACTS

City	Zip Code	Phone
HINDSDALE	94510	(630) 65
SHEIMAN OKES		
MARTINEZ	94510	
FREDRICK	94510	(240) 73
CONCORD		(352) 93
SAN RAMON	94510	(424) 94
CONCORD		(219) 34
PACHECO		
PACIFIC GROVE	94510	
WEST SACRAMENTO	94510	
LOS ANGELES		(740) 98
PHILADELPHIA	94510	(215) 19
KAMLOOPE		(816) 73
SIMI VALLEY	94510	
DANVILLE		(303) 64
NASHVILLE		(732) 38
BENICIA	94510	
PLEASANT HILL		(925) 22
WALNUT CREEK		(508) 12
VICTORIA		(290) 42
NEWPORT NEWS	94510	
PLEASANT HILL		(925) 28

GIBSON	RAYMOND		451 BOLLA PLACE	
GIBSON	CINNAMON		154 OAKVALE ROAD	
GLENVILLE	LYN		2431 MALLARD DRIVE	
GLASS	LAWRENCE		5515 MERRIT DRIVE	

FIG. 7

800

STRING ENTERED	POSSIBLE RESULTS
GO*	GONZALES GORDON
*SKI	ADAMSKI SKINNER
A?ert	ALERT ABERT ANERT
A??rt	ANERT ADART AMURT

804

FIG. 8

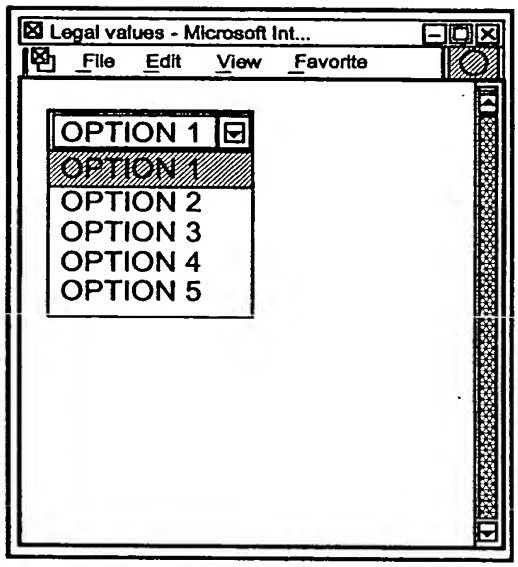
Legal values - Microsoft Int...
File Edit View Favorite
OPTION 1
OPTION 1
OPTION 2
OPTION 3
OPTION 4
OPTION 5

FIG. 9

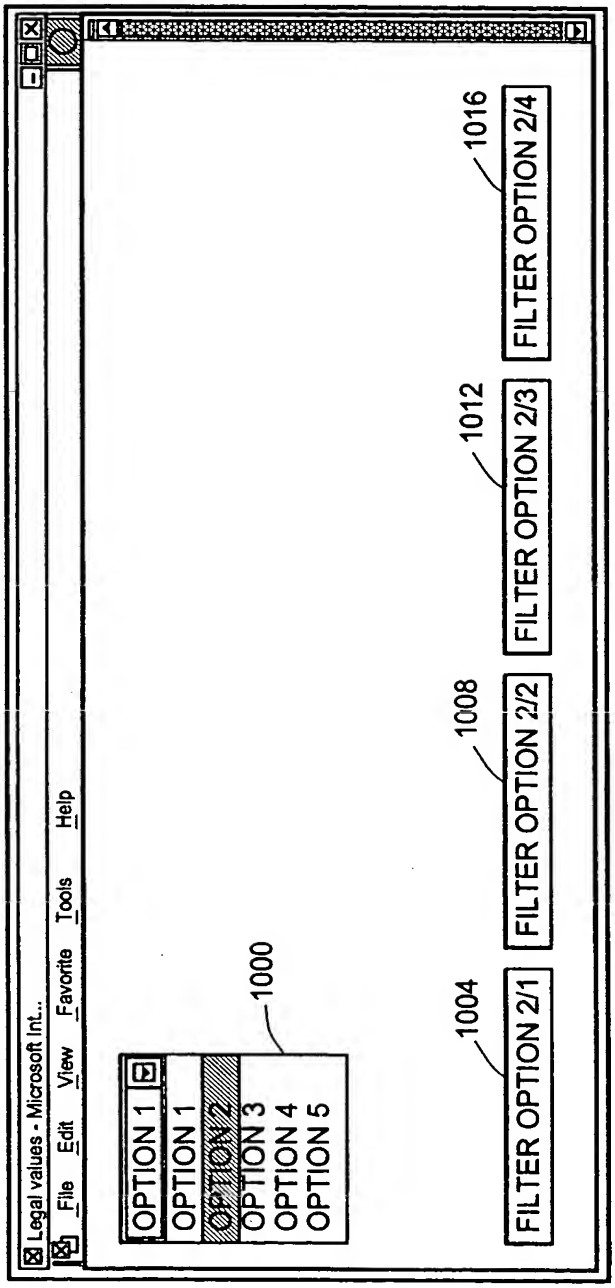
Legal values - Microsoft Int...
File Edit View Favorite Tools Help
OPTION 1
OPTION 1
OPTION 2
OPTION 3
OPTION 4
OPTION 5
1000
1004
FILTER OPTION 2/1
1008
FILTER OPTION 2/2
1012
FILTER OPTION 2/3
1016
FILTER OPTION 2/4

FIG. 10

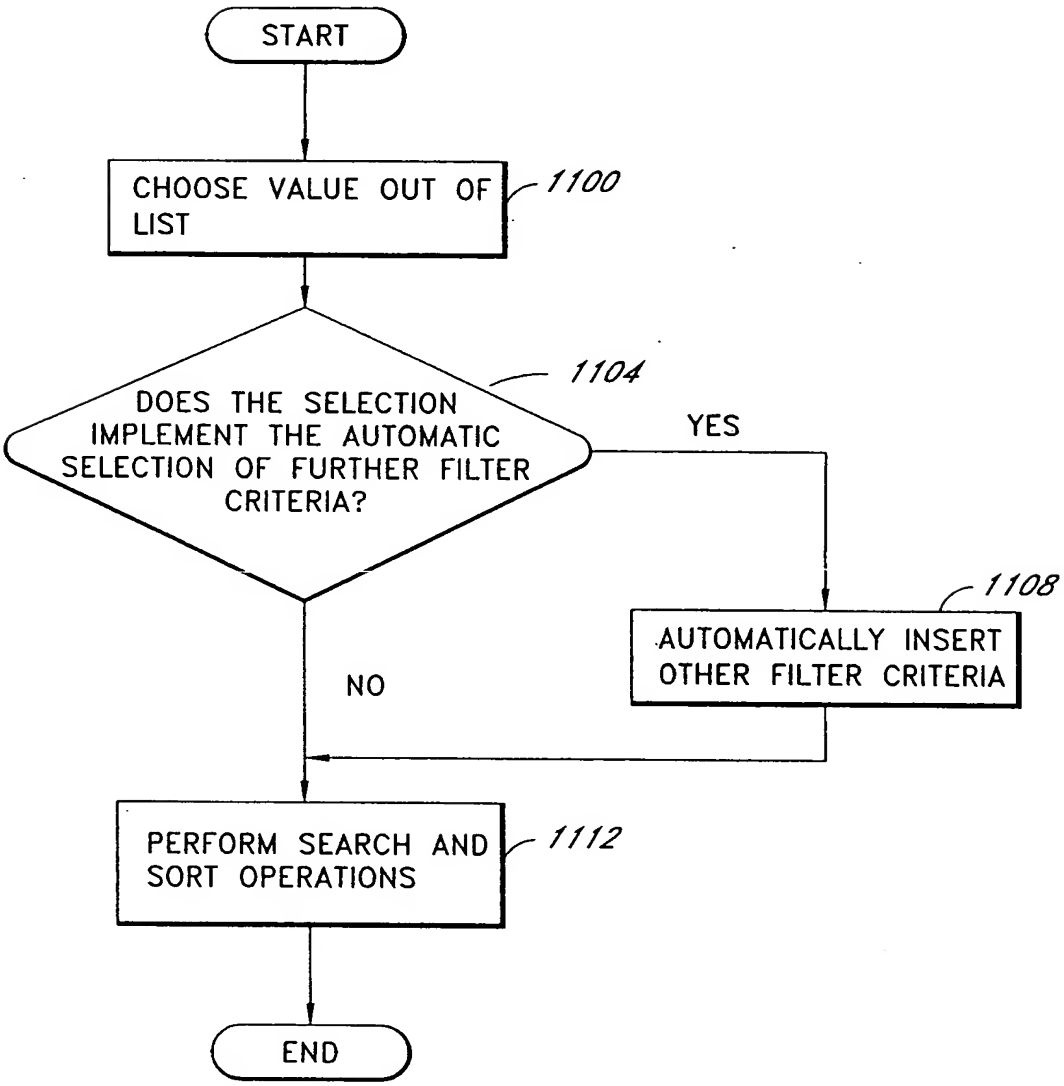
START
CHOOSE VALUE OUT OF LIST
1100
DOES THE SELECTION IMPLEMENT THE AUTOMATIC SELECTION OF FURTHER FILTER CRITERIA?
1104
YES
NO
AUTOMATICALLY INSERT OTHER FILTER CRITERIA
1108
PERFORM SEARCH AND SORT OPERATIONS
1112
END

FIG. 11

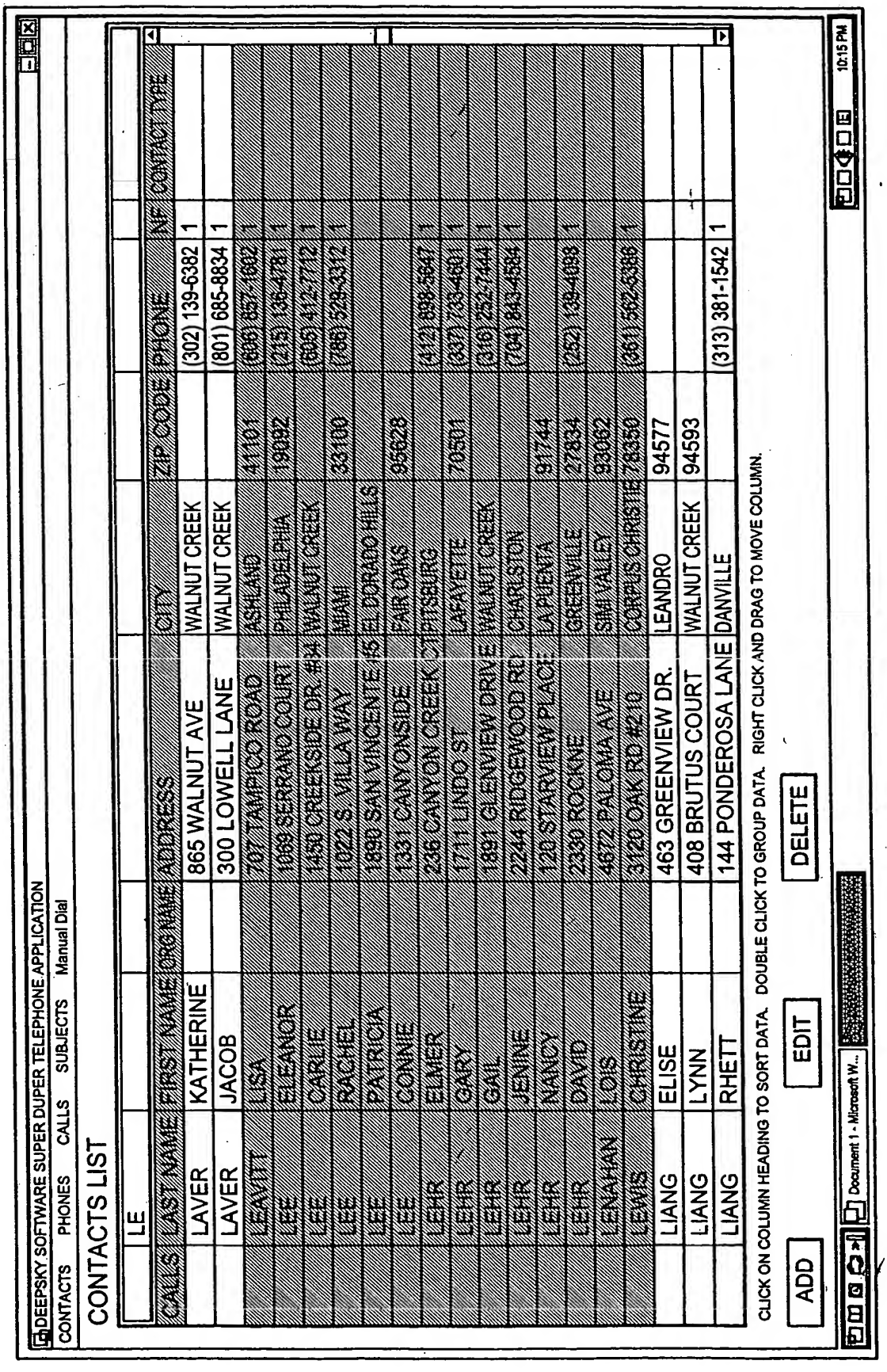
DEEPSKY SOFTWARE SUPER DUPER TELEPHONE APPLICATION
CONTACTS PHONES CALLS SUBJECTS Manual Dial
CONTACTS LIST
LE
CALLS LAST NAME FIRST NAME ORG NAME ADDRESS CITY ZIP CODE PHONE NF CONTACT TYPE
LAVER KATHERINE 865 WALNUT AVE WALNUT CREEK (302) 139-6382 1
LAVER JACOB 300 LOWELL LANE WALNUT CREEK (801) 685-8834 1
LEAVITT LISA 707 TAMPICO ROAD ASHLAND 41101 (606) 857-1602 1
LEE ELEANOR 1069 SERRANO COURT PHILADELPHIA 19092 (215) 136-4781 1
LEE CARLIE 1450 CREEKSIDE DR. #H WALNUT CREEK (805) 412-7712 1
LEE RACHEL 1022 S. VILLA WAY MIAMI 33100 (786) 529-3312 1
LEE PATRICIA 1890 SAN VINCENTE 15 EL DORADO HILLS
LEE CONNIE 1331 CANYONSIDE FAIR OAKS 95628
LEHR ELMER 236 CANYON CREEK CT PITTSBURG (412) 638-5647 1
LEHR GARY 1711 LINDO ST LAFAYETTE 70501 (337) 733-4601 1
LEHR GAIL 1891 GLENVIEW DRIVE WALNUT CREEK (316) 252-7444 1
LEHR JENINE 2244 RIDGEWOOD RD CHARLSTON (704) 843-4584 1
LEHR NANCY 120 STARVIEW PLACE LA PUENTA 91744
LEHR DAVID 2330 ROCKNE GREENVILLE 27834 (252) 139-4093 1
LENAHAN LOIS 4672 PALOMA AVE SIMI VALLEY 93062
LEWIS CHRISTINE 3120 OAK RD #210 CORPUS CHRISTIE 78350 (361) 562-5366 1
LIANG ELISE 463 GREENVIEW DR. LEANDRO 94577
LIANG LYNN 408 BRUTUS COURT WALNUT CREEK 94593
LIANG RHETT 144 PONDEROSA LANE DANVILLE (313) 381-1542 1
CLICK ON COLUMN HEADING TO SORT DATA. DOUBLE CLICK TO GROUP DATA. RIGHT CLICK AND DRAG TO MOVE COLUMN.
ADD
EDIT
DELETE
Document 1 - Microsoft W...
10:15 PM

FIG. 12